

O  
MAR 15 2004  
PATENT & TRADEMARK OFFICE

Substitute for form 1449A/PTO				<b>Complete if Known:</b>	
				Application Number	10/645,788
				Filing Date	August 20, 2003
				First Named Inventor	Maangat, Simar
				Art Unit	2855
				Examiner Name	To Be Assigned
Sheet	1	of	3	Attorney Docket Number	015114-067800US

<b>U.S. PATENT DOCUMENTS+</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>ml</i>	0001	US-4,719,369	01-12-1988	Asano et al.	
	0002	US-4,954,729	09-04-1990	Urai	
	0003	US-5,111,081	05-05-1992	Atallah	
	0004	US-5,134,311	07-28-1992	Biber et al.	
	0005	US-5,164,663	11-17-1992	Alcom	
	0006	US-5,178,300	01-12-1993	Roland et al.	
	0007	US-5,359,235	10-25-1994	Coyle et al.	
	0008	US-5,374,861	12-20-1994	Kubista	
	0009	US-5,592,510	01-07-1997	Van Brunt et al.	
	0010	US-5,602,494	02-11-1997	Sundstrom	
	0011	US-5,623,216	04-22-1997	Penza et al.	
	0012	US-5,726,582	03-10-1998	Hedberg	
	0013	US-5,726,583	03-10-1998	Kaplinsky	
	0014	US-5,764,080	06-09-1998	Huang et al.	
	0015	US-5,884,715	01-26-1999	Zani et al.	
	0016	US-5,939,896	08-17-1999	Hedberg	
	0017	US-5,970,255	10-19-1999	Tran et al.	
	0018	US-6,008,665	12-28-1999	Kalb et al.	
	0019	US-6,026,456	02-15-2000	Iikbahar	
	0020	US-6,037,798	03-14-2000	Hedberg	
	0021	US-6,049,255	04-11-2000	Hagberg et al.	
	0022	US-6,084,224	05-16-2000	Esch, Jr. et al.	
	0023	US-6,087,847	07-11-2000	Mooney et al.	
	0024	US-6,097,208	08-01-2000	Okajima et al.	
	0025	US-6,100,713	08-08-2000	Kalb et al.	
	0026	US-6,118,310	09-12-2000	Esch, Jr.	
	0027	US-6,147,520	11-14-2000	Kothandaraman et al.	
	0028	US-6,154,060	11-28-2000	Morriss	
	0029	US-6,157,206	12-05-2000	Taylor et al.	
	0030	US-6,181,157 B1	01-30-2001	Fiedler	
	0031	US-6,236,231 B1	05-22-2001	Nguyen	
	0032	US-6,252,419 B1	06-26-2001	Sung et al.	
<i>ml</i>	0033	US-6,329,836 B1	12-11-2001	Drost et al.	

Examiner Signature	<i>No N</i>	<i>WT</i>	Date Considered	<i>10/14/04</i>
--------------------	-------------	-----------	-----------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 601.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO				<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/645,788
				Filing Date	August 20, 2003
				First Named Inventor	Maangat, Simar
				Art Unit	2855
				Examiner Name	To Be Assigned
Sheet	2	of	3	Attorney Docket Number	015114-067800US

<b>U.S. PATENT DOCUMENTS+</b>						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
ll	0034	US-6,356,106 B1		03-12-2002	Greeff et al.	
	0035	US-6,362,644 B1		03-26-2002	Jeffrey et al.	
	0036	US-6,366,128 B1		04-02-2002	Ghia et al.	
	0037	US-6,411,126 B1		06-25-2002	Tinsley et al.	
	0038	US-6,414,512 B1		07-02-2002	Moyer	
	0039	US-6,424,169 B1		07-23-2002	Partow et al.	
	0040	US-6,433,579 B1		08-13-2002	Wang et al.	
	0041	US-6,445,245 B1		09-03-2002	Schultz et al.	
	0042	US-6,448,813 B2		09-10-2002	Garlepp et al.	
	0043	US-6,466,063 B2		10-15-2002	Chen	
	0044	US-6,586,964 B1		07-01-2003	Kent et al.	
	0045	US-6,590,413 B1		07-08-2003	Yang	
	0046	US-6,603,329 B1		08-05-2003	Wang et al.	
	0047	US-6,639,397 B2		10-28-2003	Roth et al.	
	0048	US-6,642,741 B2		11-04-2003	Metz et al.	
	0049	US 2002/0010853 A1		01-24-2002	Trimberger et al.	
	0050	US 2002/0060602 A1		05-23-2002	Ghia et al.	
	0051	US 2002/0101278 A1		08-01-2002	Schultz et al	
	0052	US 2003/0062922 A1		04-03-2003	Douglass et al.	
	0053	US 2004/0008054 A1		01-15-2004	Lesea et al.	

<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
							<input type="checkbox"/>
							<input type="checkbox"/>

Examiner Signature	<i>John L</i>	Date Considered	<i>10/14/04</i>
--------------------	---------------	-----------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

60161643 v1

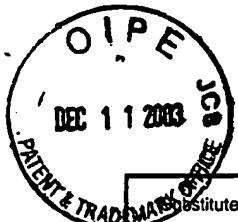
Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				<i>Application Number</i>	10/645,788
				<i>Filing Date</i>	August 20, 2003
				<i>First Named Inventor</i>	Maangat, Simar
				<i>Art Unit</i>	2855
				<i>Examiner Name</i>	To Be Assigned
Sheet	3	of	3	<i>Attorney Docket Number</i>	015114-067800US

<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
he	0054	Altera, Apex 20K "Programmable Logic Device Family," Altera Corporation, Ver. 1.1, May 2001	/	
	0055	Altera, Apex II "Programmable Logic Device Family," Altera Corporation, Ver. 1.1, May 2001	/	
	0056	Bendak, M. et al. (1996). "CMOS VLSI Implementation of Gigabyte/second computer network links," Dept. of Electrical and Computer Engineering, University of California at San Diego, La Jolla, CA 92093-0407, IEEE International Symposium on Circuits and Systems pp.269-272.	/	
	0057	Boni, A. et al. (2001). "LVDS I/O Interface for Gb/s-per-Pin Operation in 0.35-μm CMOS," IEEE Journal of Solid-State Circuits, 36(4):708-711.	/	
	0058	Esch and Manley, Theory and Design of CMOS HSTL I/O Pads, The Hewlett Packard Journal, Aug, 1998	/	
	0059	Xilinx, "Spartan-3 1.2V FPGA Family: Functional Description," Xilinx, DS099-2 (v1.2) July 11, 2003	/	
	0060	Xilinx, "Virtex-II 1.5V Field Programmable Gate Arrays," Xilinx, DSO3102 (v1.5), Apr. 2, 2001	/	
	0061	Xilinx, "Virtex-II Platform FPGAs: Detailed Description," Xilinx, DS031-2 (v3.1) October 14, 2003	/	
he	0062	Xilinx, "Virtex-II Pro Platform FPGAs: Functional Description," Xilinx, DS083-2 (v2.9) October 14, 2003	/	

Examiner Signature	DON WE	Date Considered	10/15/04
--------------------	--------	-----------------	----------

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.



<p style="text-align: center;"><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p>		<b>Complete If Known</b>	
		Application Number	10/645,788
		Filing Date	August 20, 2003
		First Named Inventor	Maangat, Simar
		Art Unit	To Be Assigned
		Examiner Name	To Be Assigned
Attorney Docket Number			
Sheet	1	of	1

## **U.S. PATENT DOCUMENTS+**

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature	J D W	W	Date Considered	10/14/04
-----------------------	-------	---	--------------------	----------

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>8</sup>Applicant is to place a check mark here if English language Translation is attached.